ABSTRACT

A constant temperature valve used in a faucet has a sleeve, an actuator and a plurality of separate spring rings. A plurality of O-shaped rubber rings is distributed longitudinally on an outer peripheral of the sleeve and divides the outer peripheral of the sleeve into a plurality of sections. The actuator forms a plurality of collars on a peripheral thereof for fitting with sections of the sleeve. A plurality of grooves is defined in an outer peripheral of the collars of the actuator for retaining the spring rings. Each spring ring forms a gap for enhancing resiliency thereof. The spring rings shrink appropriately to facilitate the actuator slidable relative to the sleeve 1 when dirty or hair is filled between the actuator and the sleeve. Thus, the constant temperature valve accurately responds to temperature control requirement. On the other hand, the spring rings and the grooves allow to lower manufacture precision requirement of the actuator and sleeve.